



## Imodeli Yokubusa Okudidiyelwe kanye Nekharikhulamu: Ukwakha Umphakathi Ophumelelayo **Ndawonye**

### Umbono

Ukwakha umphakathi lapho zonke izakhamizi zithuthuka, amabhizinisi akhula ngokuqhubekayo, nohulumeni basebenze ngokusobala nangempumelelo. Le modeli ihlanganisa ukubusa, imfundo, ukukhula komnotho, nokuphepha komphakathi ibe uhlaka olubumbene nolusebenzayo, nohlelo lokuqaliswa olunezigaba ukuze kuqinisekiswa ukusimama nokubandakanywa.

### Izinjongo Eziyinhloko

1. **Ukubusa** : Yakha ukwethembana ngokubeka izinto obala, ukuqapha, nokuzibandakanya kwezakhamizi.
2. **Imfundo** : Nika izakhamuzi amandla ngamakhono, ulwazi, kanye nezimiso zokuziphatha ezidingekayo ngekusasa.
3. **Ukunakekelwa Kwezempilo** : Ukuqinisekisa ukufinyelela okulinganayo nokuqhubekayo ekunakekelweni kwekhwalithi kwabo bonke.
4. **Umnotho** : Shayela ukusungula izinto ezintsha, udale amathuba emisebenzi, futhi usekele ukukhula okusimeme, okunohlaza.
5. **Ukuphepha** : Qinisa ukwethenjwa komphakathi futhi uthuthukise ukuphepha komphakathi.

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## 1. Isifinyezo Esiphezulu

Le modeli iwuhlaka olusha noluphelele lokudala imiphakathi esimeme ngokusebenzisa izinguquko zokuphatha, ukusungula izinto ezintsha zemfundo, ukunakekelwa kwezempilo okulinganayo, ukuhlonyiswa kwezomnotho, kanye nezinhlelo zokuphepha. Ihlanganisa izixazululo ezingokoqobo, ubuchwepheshe, nokusebenzisana kwemikhakha eminingi ukuze ilethe imiphumela elinganisekayo eklanyelwe izimo kazwelonke nezendawo.

## 2. Isingeniso

Imiphakathi yanamuhla ibhekene nezinselele ezixhumene ezinjengokungalingani kwezomnotho, ukufinyelela okulinganiselwe kwemfundo, inkohlakalo, izinkinga zezempilo kanye nobugebengu obukhulayo. Lo mfanekiso ubhekana nalezi zinkinga ngendlela ehlelekile ehlanganisa ukubusa okusobala, imfundo ebandakanya wonke umuntu, kanye nokukhula komnotho okusimeme. Ukuqaliswa kwayo ngezigaba kuqinisekisa umthelela ohlala njalo futhi olinganisekayo.

## 3. Ukubusa: Ukwakha Ukuthembana Nokungafihli

### Imigomo:

- Ukuhlomisa izakhamuzi ukuthi zibambe iqhaza ngempumelelo ekubuseni.
- Ukuqinisekisa ukwabiwa okusobala kanye nokusetshenziswa kwezinsiza zomphakathi.
- Sungula izindlela eziqinile zokulwa nenkohlakalo.

### Izenzo Ezibalulekile:

1. Yethula isabelomali esibambe iqhaza ezifundeni zokulinga ukubandakanya imiphakathi.
2. Dala izinkundla zedijithali zokulandelela umphakathi ngesikhathi sangempela samaphrojekthi kanye nokusetshenziswa kwemali kukahulumeni.
3. Ukusungula izikhungo ezimele ezimelene nenkohlakalo ngocwaningomabhuku lwangaphandle.

### Amamethrikhi:

- Ukwenyuka ngo-50% kokuthenjwa komphakathi phakathi neminyaka emi-5.
- U-80% wezindleko zikahulumeni zibonakala ngamathuluzi okubeka izinto obala.
- Ukwehliswa ngo-30% kwemibiko yenkohlakalo ngonyaka weshumi.

**Izinsiza:** Isabelomali: \$ 50M; Ubambiswano: ama-NGO, izinkampani zobuchwepheshe; Abasebenzi: 500 abasebenzi abaqeqeshiwe.

## 4. Imfundo: Ukulungiselela Izakhamizi Ikusasa

### Imigomo:

- Nikeza ukufinyelela okulinganayo nokulinganayo kwemfundo esezingeni eliphezulu.
- Qondanisa amakharikhulamu nezidingo zabasebenzi kanye namazinga omhlaba.
- Thuthukisa ubuhlakani bemizwa, ukufunda ngedijithali, nokuzibandakanya komphakathi.

### Izenzo Ezibalulekile:

1. Faka amakilasi angomahambanendlwana asebenzisa amandla elanga ezindaweni ezinganakekelwa kahle ukuze afinyeleleke ngokushesha.
2. Yamukela ikharikhulamu edidiyelwe ehlanganisa ukuqeqeshwa kwemisebenzi yezandla, i-STEM, ubuhlakani bemizwa, kanye nokubusa.
3. Sabalalisa amadivaysi edijithali ngezinto zokufunda eziqondene nawe.

### Amamethrikhi:

- Amazinga okufunda nokubhala anyuke ngo-60% phakathi neminyaka eyi-10.
- Ukubhaliswa okungu-90% ezinhlelweni zemisebenzi yezandla phakathi neminyaka emi-5.
- Ukuqashwa kwabathweswe iziqu kukhuphuke ngo-30% ngonyaka weshumi.

**Izinsiza:** Isabelomali: \$ 150M; Ubambiswano: izinkampani zobuchwepheshe, ama-NGO; Abasebenzi: 2,000 othisha nabaqeqeshi.

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## 5. Ukunakekelwa Kwezempilo: Ukuqinisekisa Impilo Yabo Bonke

### Imigomo:

- Nikeza izinsiza zokunakekelwa kwezempilo ezifinyelelekayo, ezisezingeni eliphezulu kubo bonke.
- Qinisa ukunakekelwa kokuvikela kanye nezinhlelo zezempilo zomphakathi.
- Ayehlisa ngokuphawulekayo amazinga okufa komama nezingane.

### Izenzo Ezibalulekile:

1. Hambisa imitholampilo engumahamba nendlwana eyi-100 ezosiza izindawo zasemakhaya nezikude.
2. Qeqesha abasebenzi bezempilo bomphakathi abayizi-10,000 ukuthi balethe ukunakekelwa okuyisisekelo nokuvimbela.
3. Sungula imigudu efanele yokuhlinzeka ngemithi ebalulekile kanye nemigomo.

### Amamethrikhi:

- Ukufinyelela ekunakekelweni kwezempilo ezindaweni zasemaphandleni kunwetshwe kwafinyelela ku-70% phakathi neminyaka emi-5.
- Ukushona komama kwehle ngo-50% phakathi neminyaka eyi-10.
- Bangu-10,000 abasebenzi bezempilo abaqeqeshwe ngoNyaka wesi-5.

**Izinsiza:** Isabelomali: \$ 200M; Ubambiswano: abaxhasi, izinkampani ezithaka imithi; Abasebenzi: 10,000 abasebenzi.

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## 6. Umnotho: Ukudala Imisebenzi kanye Nokukhula Okusimeme

### Imigomo:

- Shayela ukukhula komnotho ngokusungula izinto ezintsha, ukusimama, kanye nobuchwepheshe.



- Dala imisebenzi esezingeni eliphezulu futhi usekele osomabhizinisi bendawo.
- Heha ukutshalwa kwezimali kuzwelonke nakwamanye amazwe.

**Izenzo Ezibalulekile:**

1. Ukuthuthukisa izindawo zezomnotho ezikhethekile ezigxile kwezolimo, ezokuvakasha, namandla avuselelekayo.
2. Nikeza u-\$50M wemalimboleko encane kumabhizinisi amancane nosomabhizinisi.
3. Nikeza izikhuthazo zentela kumabhizinisi asebenzisa izinqubo ezizinzile.

**Amamethrikhi:**

- Ingu-500,000 imisebenzi eyakhiwe phakathi neminyaka eyi-10.
- Ukukhula kwe-GDP ngama-20% emikhakheni ebekwe eqhulwini phakathi neminyaka emi-5.
- Ubumpofu behliswe ngo-25% ngonyaka we-10.

**Izinsiza:** Isabelomali: \$ 300M; Ubambiswano: abatshalizimali, amabhange; Abasebenzi: 5,000 abeluleki bebhizinisi.

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**7. Ukuphepha Nokuvikela: Ukwakha Ukuthembana Nokuvikeleka****Imigomo:**

- Ukuthuthukisa ukuvikeleka komphakathi futhi kuqinise ukwethenjwa kwabomthetho.
- Ukunciphisa ubugebengu ngezinyathelo zokuvimbela kanye nokubuyisela esimweni.
- Thuthukisa ukulungela izinhlekelele kanye nokubhekana nezinhlekelele.

**Izenzo Ezibalulekile:**

1. Qeqesha amaphoyisa ngokusebenza komphakathi kanye nokuxazulula izingxabano.
2. Sebenzisa amathuluzi wamaphoyisa aqagelayo ukuze kwabiwe izinsiza ngendlela efanele.
3. Yenza izinhlelo zokuhlunyeleliswa kwezimilo zabantu abathintekile ngenxa yokungqubuzana.

**Amamethrikhi:**

- Ukwehliswa kwamazinga obugebengu ngama-25% phakathi neminyaka eyi-10.
- Ukuphathwa kwamaphoyisa omphakathi kuqaliswe ku-80% wezindawo zasemadolobheni ngonyaka wesi-5.
- Abantu abangu-50,000 baphinde bahlanganiswa emphakathini ngonyaka we-10.

**Izinsiza:** Isabelomali: \$ 150M; Ubambiswano: ama-NGO, izikhungo zomthetho; Abasebenzi: 3,000 izikhulu nabaqeqeshi.

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## 8. Uhlelo Lokuqalisa

### Isigaba 1: Ukuwina Ngokushesha (Iminyaka 1-2):

- Yethula amasu okulinga esabelomali esibamba iqhaza, imitholampilo engomahamba nendlwana, kanye nezifundo eziyisisekelo.
- Sebenzisa izinkundla zedijithali ukuze kube sobala kuhulumeni.
- Ukusungula izikhungo zesifunda zokuqeqesha amakhono.

### Isigaba sesi-2: Impumelelo Yokukala (Iminyaka 3-5):

- Nweba abashayeli bezindiza baye emazingeni kazwelonke.
- Khulisa izindawo zezomnotho ezikhethekile nezinhlelo zemfundo.
- Hlanganisa ngokugcwele ukubusa kwedijithali kuwo wonke amazanga.

### Isigaba sesi-3: Ukukhula Okusimeme (Iminyaka 6-10):

- Ukwenza kube lula ukufinyelela ekunakekelweni kwezempilo kanye nemfundo.
- Hlanganisa ubuholi bomhlaba ekusimameni nasekusunguleni izinto ezintsha.
- Ukusungula izindlela zokuqapha kanye nokwenza izinto obala.

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## 9. Ukuqapha, Ukuziphendulela, kanye Nokulawulwa Kwezinhlekelele

- **Ukuqapha:** Landelela inqubekelaphambili usebenzisa ama-KPI acacile futhi aqinisekisekayo.
- **Ukuziphendulela:** Shicilela imibiko yonyaka, efinyelelekayo, neneminingwane.
- **Ukulawulwa Kwezinhlekelele:** Thuthukisa izindlela eziguquguqukayo zokubhekana nokushaqeka kwezepolitiki, kwezomnotho, noma kwezemvelo.

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## 10. Kungani Lesi Sifanekiso Sizophumelela

1. **Ukusebenzisana Okuphumelelayo:** Kuhlenganisa ohulumeni, amabhizinisi, nezakhamuzi kuzo zonke izigaba.
2. **Izisombululo ezi-Scalable:** Ukuqaliswa ngezigaba kuqinisekisa ukukhula okungaguquki.
3. **Ukubonisa ngale Okusha:** Amathuluzi edijithali athuthukisa ukwethenjwa komphakathi.
4. **Umthelela Oqhubekayo:** Iqondanisa izinjongo zezenhlo, ezomnotho, nezemvelo.

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## 11. Isiphetho

Imodeli Yokubusa Okudidiyelwe kanye Nekharikhulamu imele indlela entsha neshintshayo yokubhekana nezinsalelo zamanje zomhlaba. Ikhuthaza ukukhula okubandakanya wonke umuntu, inika izakhamuzi amandla, futhi iletha imiphumela ebonakalayo kubo bonke ababambiqhaza. Ngale modeli, singakha umphakathi olinganayo, ozinzile, futhi ophumelelayo.



# Isethulo Sohlelo Lwezifundo Oluguquguqukayo

Ikharikhulamu Eguquguqukayo Yabafundi Abahlakaniphile, Abathembisene Umshado, NabaFundi Bempilo Yonke

- **Umbono** : Ukuhlakulela isizukulwane sabantu abazikhuthazayo, abacabanga ngokujulile, nabahlakaniphile ngokomzwelo.
- **Ifilosofi Eyinhloko** : Ukufunda komuntu siqu, okushukumisayo okuhlanganisa izinhlelo zokusebenza zomhlaba wangempela nolwazi lwemikhakha eyahlukene.

## Kungani Lesi Sifundo?

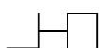
- **I-Global Relevance** :
  - Iqondana namazinga omhlaba (i-PISA, IB).
  - Igxila ekucabangeni okujulile, ekudaleni nasekuhlakanipheni ngokomzwelo.
- **Ukuqamba** :
  - Ihlanganisa i-gamification, amathuluzi e-AI, nokufunda okuguquguqukayo.
- **Ukulingana** :
  - Iqinisekisa ukufinyelela ezinsizeni namathuluzi edijithali kubo bonke abafundi.
- **Ukusimama** :
  - Ilungiselela abafundi ukubhekana nezinselele zomhlaba ngokuziphatha.

## Amaphuzu Avelele Ohlelo Lwezifundo

1. **Ukufunda Okusebenzisanayo** :
  - Ukuxoxa izindaba, izinkulumo-mpikiswano, ukudlala indima yezilimi.
  - Izindlela ezisuselwe ezinkingeni nezagamified zezibalo.
  - Amalebhu agxilile namaprojekthi ahlukahlukene kwesayensi.
2. **Izicelo Zomhlaba Wangempela** :
  - Amaprojekthi weCapstone abhekana nezinselelo zomphakathi (isb., ukuphepha kokudla, ukwakhiwa kwamadolobha).
  - Ubambiswano nezinhlangano ukuze uthole ulwazi oluthe xaxa.
3. **I-Digital Literacy** :
  - Amamojula ekhodi, i-cybersecurity, kanye nezimiso zedijithali.
  - Izindlela zokufunda ezenziwe ngezifiso ze-AI.

## Amasu Okufundisa

- **Izilimi Nokuxhumana** :
  - Ukuxoxa izindaba, izimpikiswano, izincwadi zomhlaba jikelele.
  - Amaprojekthi asebenzayo afana namabhulogi nama-podcasts.
- **Izibalo** :
  - Izimo zomhlaba wangempela (isb, isabelomali, ukuhlaziya idatha).
  - Ukuxazululwa kwezinkinga ngokubambisana kanye nokwenza imidlalo.
- **Isayensi** :
  - Ukuhlolwa kwamandla avuselelekayo, ukulima kwasemadolobheni.
  - Okungokoqobo ukungathandwa kwabathelisi esikubona kokubuka imiqondo.
- **Izimfundo zomphakathi** :



- Imicimbi yomlando yokulingisa.
- Amaphrojekthi wokufunda ngezinsizakalo njengokuhlaza umphakathi.

## Izici Ezintsha

1. **Gamification :**
  - Imigqa yezindaba yezemfundo ehambisana nezinjongo zekharikhulamu.
  - Imininingwane eqhutshwa i-Analytics yokufunda komuntu siqu.
2. **I-Emotional Intelligence (EI) :**
  - Imikhuba yansuku zonke yokucabanga.
  - Imihlangano yokucobelelana ngolwazi yokuxazulula izingxabano.
3. **Ukusebenzisana Kwembulunga yonke :**
  - Ubambiswano lokufundisa nokuhwebelana ngamasiko ahlukene.

## Ukufinyeleleka kanye Nokulingana

- **Ukuvala Ukuhlukaniswa Kwedijithali:**
  - Ukufinyelela kwezobuchwepheshe kubo bonke abafundi.
- **Amasistimu Wokusekela:**
  - Izinhlelo zokufundisa kanye nemihlangano yokufundisana yabazali.
- **Ukuqeqeshwa Kothisha:**
  - Ukuthuthuka okuqhubekayo ku-pedagogy, ubuchwepheshe, kanye ne-EI.

## Imiphumela Elindelwe

- **Iphrofayela Yokuthweswa Iziqu (Iminyaka engu-18):**
  - Umcabango obalulekile kanye nomxazululi wezinkinga.
  - Ubungcweti emikhakheni eyisipesheli ngolwazi lwezinhlelo ezahlukeneyo.
  - Umuzwa womhlaba wangempela ngama-internship namaphrojekthi.
- **Ukuncintisana Komhlaba :**
  - Ilungiselelwe ubuhlobo emhlabeni ohlangene.

## Uhlelo Lokuqalisa

1. **Isigaba 1: Uhlelo Lokulinga :**
  - Hlanganyela nezikhungo ezikhethiwe ukuze uqalise.
2. **Isigaba 2: Impendulo kanye Nokuzijwayeza :**
  - Yenza ngcono ikharikhulamu ngokusekelwe kumpendulo kathisha nomfundi.
3. **Isigaba sesi-3: Ukukhishwa Kwembulunga yonke :**
  - Linganisa kumasistimu ezemfundo ahlukahlukene emhlabeni jikelele.

## Bizela Esenzweni

- **Uzakwethu!**
  - Guqula imfundo futhi ulolonge abaholi bakusasa.
  - Hlanganyela ukuze usebenzise lolu hlelo lokufunda olusha.
- **Ulwazi lokuxhumana :**
  - [Faka imininingwane yakho yokuxhumana lapha]

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# Uhlu Oluphelele Lokuqhubeka Kwesihloko

## Amazinga Ebanga: Ukungena Kokuthuthukile (Isikali Sokukhiqiza)

### Izinga Lokungena (Amabanga 1-3)

#### *Ukugxila Okubalulekile: Ulwazi Oluyisisekelo Nokuthuthukiswa Kwamakhono*

##### 1. Izilimi Nokuxhumana :

- **IBanga loku-1** : Ukuqashelwa kwezinhlamvu, imisindo, ulwazimagama oluyisisekelo, nemisho elula.
- **IBanga lesi-2** : Ukufunda ngokuqondisisa, ukuxoxa indaba, nesingeniso sohlelo lolimi.
- **IBanga lesi-3** : Ukubhala izigaba, ukukhuluma esidlangalaleni, kanye nokuxoxa izindaba.

##### 2. Izibalo :

- **IBanga loku-1** : Izinombolo, ukubala, ukuhlanganisa/ ukususa.
- **IBanga lesi-2** : Isingeniso sokuphindaphinda/ukuhlukanisa, amaphethini, nokuxazulula izinkinga okulula.
- **IBanga lesi-3** : Izingxenyanana, ijometri eyisisekelo, nesilinganiso.

##### 3. Isayensi :

- **IBanga loku-1** : Imvelo nendawo, ukuhlola izinzwa.
- **IBanga lesi-2** : Ibhayoloji eyisisekelo (izitshalo/izilwane) namaphethini wesimo sezulu.
- **IBanga lesi-3** : Isingeniso sokuhlolwa okulula (isb, umjikelezo wamanzi) kanye nesayensi yoMhlaba.

##### 4. Izimfundo zomphakathi :

- **IBanga loku-1** : Ukuqonda izindima zomndeni, umphakathi, namasiko.
- **IBanga lesi-2** : Amamephu kanye nendawo eyisisekelo.
- **IBanga lesi-3** : Isingeniso sezibalo zomlando kanye nezikhathi ezilula.

##### 5. Ubuciko :

- Ukudweba, ukufaka imibala, ukwazisa umculo, nemisebenzi yezandla eyisisekelo.

##### 6. I-Digital Literacy :

- Ukujwayelana nobuchwepheshe obuyisisekelo (isb, ukuthayipha, amadivaysi okuzulazula).

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### Izinga Eliphakathi (Amabanga 4-6)

#### *Ukugxila Okubalulekile: Ukwandisa Ulwazi Nokucabanga Okubalulekile*

##### 1. Izilimi Nokuxhumana :

- Uhlelo lolimi oluthuthukile, ukubhala indaba, nokufunda ngokujulile.
- Imisebenzi yokuhlanganyela efana nezinkulumo-mpikiswano nokubhala okunobuciko.

##### 2. Izibalo :

- **IBanga lesi-4** : Ukuhlukaniswa okude, amadesimali, nezibalo eziyisisekelo.
- **IBanga lesi-5** : Izilinganiso, amaphesenti, ne-algebra yesingeniso.
- **IBanga lesi-6** : Okuyisisekelo kweJiyomethri, amathuba, ne-pre-algebra.

##### 3. Isayensi :

- **IBanga lesi-4** : Imvelo namandla.
- **IBanga lesi-5** : Ukwakheka komuntu kanye nezinsiza zomhlaba.
- **IBanga lesi-6** : Izisekelo ze-Physics (amandla, ukunyakaza) kanye nekhemistri yesingeniso.

##### 4. Izimfundo zomphakathi :

- Amasiko omhlaba, igeography, nezenzakalo ezibalulekile zomlando.

##### 5. Ubuciko :

- Isingeniso sobuciko obudlalwayo, amathuluzi obuciko bedijithali, namaprojekthi okuhlanganyela.



## 6. I-Digital Literacy :

- Izisekelo zokubhala amakhodi, ukuphepha kwe-inthanethi, namathuluzi okwethulwa kwedijithali.

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### Izinga eliphakathi (Amabanga 7-9)

#### *Ukugxila Okubalulekile: Ukuhlenganiswa Kwemikhakha Ehlukene kanye Nezicelo Ezisebenzayo*

##### 1. Izilimi Nokuxhumana :

- Ukubhala okuthuthukile (amaphepha ocwaningo, ama-eseyi athonyayo).
- Ukukhuluma esidlangalaleni nokufunda nabezindaba.

##### 2. Izibalo :

- I-Algebra I, i-geometry, ne-trigonometry eyisisekelo.
- Izinhlelo zokusebenza zomhlaba wangempela ezifana nolwazi lwezezimali.

##### 3. Isayensi :

- Ibhayoloji ethuthukisiwe (ibhayoloji yamaselula, izakhi zofuzo).
- Izisekelo zeKhemistry (izakhi, ukusabela).
- I-Physics (amandla, amagagasi).

##### 4. Izimfundo zomphakathi :

- Izinhlelo zikahulumeni, umlando womhlaba, kanye nezifundo zamasiko.

##### 5. Ubuciko :

- Ukuthuthukiswa kwephothifoliyo, izisekelo zokugqwayiza, namaprojekthi we-multimedia.

##### 6. I-Digital Literacy :

- Ukwakhiwa kwewebhusayithi, ukusetshenziswa kwe-AI kokuziphatha, kanye nokubonwa kwedatha okuthuthukisiwe.

##### 7. I-Emotional Intelligence (EI) :

- Ukusebenzisana kontanga, imihlangano yokucobelelana ngolwazi yokuxazulula izingxabano, kanye nokubhala izindaba.

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### Izinga Elithuthukile (Amabanga 10-12)

#### *Ukugxila Okubalulekile: Ubungcweti, Imibono Yomhlaba Wonke, kanye Nemiklamo ye-Capstone*

##### 1. Izilimi Nokuxhumana :

- Ukuhlaziywa kwemibhalo okuthuthukile, ukubhala kobuchwepheshe, nokuqanjwa kobuciko.
- Izincwadi zamasiko ahlukene kanye nokuxhumana.

##### 2. Izibalo :

- I-Algebra II, i-pre-calculus, nezibalo.
- Imodeli yedatha yomhlaba wangempela nokuhlaziya.

##### 3. Isayensi :

- Ikhemistri ethuthukile (i-organic/inorganic chemistry).
- Physics (Mechanics, ugesi, uzibuthe).
- Isayensi yezemvelo kanye namaprojekthi wokusimama.

##### 4. Izimfundo zomphakathi :

- Ezomnotho, ipolitiki yomhlaba wonke, nomlando wesimanje.
- Ukwenziwa kwezinqumo zeCivic kanye nezimiso zokuziphatha.

##### 5. Ubuciko :

- Imidiya yedijithali ethuthukisiwe, ukudalwa kwephothifoliyo, nemibukiso emikhulu.

##### 6. I-Digital Literacy :

- Ukuthuthukiswa kohlelo lokusebenza, i-cybersecurity, namathuluzi e-AI athuthukile.

##### 7. I-Emotional Intelligence (EI) :

- Ukuqeqeshwa kobuholi, imikhuba yokucabangela, nokufunda okuthuthukisiwe ngokomzwelo.

##### 8. Amaprojekthi we-Capstone :

- Izinselelo zemikhakha ehlukeni (isb., ukuhlela amadolobha, ukusungulwa okusha kwezempilo).
- Ukusebenzisana kokufundisa emhlabeni wonke kanye nezethulo zokugcina.

#### Amakhono Wokuthweswa Iziqu

- Ukucabanga okubalulekile kanye nokusha.
- Umuzwa womhlaba wangempela nobungcweti.
- Ubuholi bokuziphatha kanye nokuqwashisa ngokusimama.
- Ubungcweti bamathuluzi edijithali nokusebenzisana.

Lolu hlu luqinisekisa inqubekelaphambili yabafundi ngendlela ehlelekile, bathola amakhono ayisisekelo ngaphambi kokudlulela ezindaweni zolwazi ezihlukene nezikhethekile. Idizayinelwe ukukala nokuvumelana nezimo zomhlaba jikelele.

## Iphrofayili Yomlingiswa: Umuntu Ofanelekayo Wohlelo Lwezifundo Oluguqulayo

Igama : **Aurora “Rory” Ellis ( *Isibonelo* )**

#### Ulwazi Oluyisisekelo

- **Ubudala** : Iminyaka eyi-10
- **Izinga leBanga** : Ibanga lesi-5
- **Idolobha lasekhaya** : I-Evergreen Heights, indawo yasemadolobheni ehlukeni ngokwamasiko
- **Isizinda Somndeni** : Uhlala nabazali bakhe, usosayensi wezemvelo kanye nomdwebi wezithombe, kanye nomfowabo omncane.
- **Izilimi ezikhulunywayo** : IsiNgisi (eshelelayo), iSpanishi (esiyingxoxo)

#### Izimfanelo Zobuntu

- **Ilukuluku nokuhlola** :
  - U-Rory uhlale ebuza ukuthi “kungani” nokuthi “kanjani,” ekhombisa ukuthambekela kwemvelo ekutholeni nasekuqondeni.
  - Uthanda izincwadi ezikhuluma ngesikhala, i-ecosystem, nezinto ezinhle eziqanjwe.
- **I-Creative Thinker** :
  - Waziwa ngekhono lakhe lokucabanga ngaphandle kwebhokisi, u-Rory uvame ukudweba imiklamo noma imidwebo yemibono yakhe eqanjwe.
  - Uyakujabulela ukuhlenganisa ukuxoxa indaba nobuciko, ngokuvamile enza amahlanya ukuze achaze imiqondo yesayensi.
- **Umholi Ozwelayo** :
  - Usebenza njengomeluleki kumfowabo omncane, emsiza ngomsebenzi wesikole futhi emkhuthaza ukuba azihlalele izinto azithandayo.
  - Ubonwa njengomlindi wokuthula phakathi kwabangane bakhe, oxazulula izingxabano ngemibono ecatsangelwayo.

#### Izithakazelo Zezemfundo Nezangaphandle

1. **Umshisekeli Wesayensi** :
  - Uthanda ukuhlola amakhithi esayensi yasekhishini nokubuka imvelo.
  - Muva nje kusungulwe isifudumezi samanzi esisebenza ngelanga sombukiso wesayensi wesikole.



2. **Ukuvezwa kobuciko :**

- Ujabulela ubuciko bedijithali futhi muva nje uqale ukuhlola isofthiwe yopopayi.
- Uhlanganisa amakhono akhe obuciko kanye nothando lwakhe lokulwela imvelo ngokuklama amaphosta emicimbi yasendaweni.

3. **Ubuchwepheshe Curious :**

- Uqale ukufunda okuyisisekelo sokubhala amakhodi ngohlelo lokusebenza lokuthuthukisa igeyimu.
- Unentshisekelo ekudaleni uhlelo lokusebenza olulula ukuze alandelele imizamo yendawo yakubo yokuvuselela kabusha.

4. **Ukusebenzelana Komphakathi :**

- Ubamba iqhaza emikhankasweni yokuhlanza izikole futhi abhalele uhulumeni wasekhaya izincwadi ekhuthaza izinqubomgomo ezithuthukisa imvelo.

5. **Umfundi Wempilo Yonke :**

- Uvamise ukusebenzisa izinkundla zemfundo eziku-inthanethi ukuze afunde ngezifundo ezingaphezu kwezinga lakhe lebanga, njengesayensi yezinkanyezi nokuphila okuzinzile.

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I-Emotional and Social Intelligence

• **Ukuzazi :**

- Uziqwayeza ukubhala nsuku zonke ukuze azindle ngemizwa yakhe futhi alandelele ukukhula kwakhe.
- Ibonisa ukuvuthwa ekuboneni lapho edinga usizo futhi efuna isiqondiso.

• **Umhlanganyeli Ozwelayo :**

- Ulalela ontanga yakhe ngentshiseko futhi ahlanganise imibono yabo kumaphrojekthi weqembu.
- Amavolontiya okusiza ofunda nabo abanenkinga yezabelo, ikakhulukazi kwezesayensi nezobuciko.

• **I-Resilient Problem-Solver :**

- Ubekezelela izinselele, ebona ukwehluleka njengamathuba okufunda.
- Izindlela zishayisana nomqondo ovulekile kanye nomqondo ogxile ezixazululweni.

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Izimfanelo Ezihambisana Nohlelo Lwezifundo

1. **I-Interdisciplinary Thinker :**

- Ixhuma kalula imiqondo kuzo zonke izifundo, njengokusebenzisa ubuciko ukuze ubone ngeso lengqondo idatha yesayensi.

2. **Global Perspective :**

- Ibonisa intshisekelo yokufunda ngamasiko ahlukenene ngezincwadi namavidiyo.
- Ufisa ukuvakashela izindawo ezifana nehlathi lemvula lase-Amazon ukuze afunde ngezinhlobohlobo zezinto eziphilayo.

3. **I-Ethical Innovator :**

- Idala amaphrojekthi ahloselwe ukuxazulula izinkinga zomhlaba wangempela, njengokuklama indlu yezinyoni ephinda isebenze njengenzwa yesimo sezulu.

4. **Ikusasa :**

- Amaphupho okuba unjiniyela wezemvelo, axube uthando lwakhe ngemvelo nobuchwepheshe.

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Imibono yephrojekthi ye-Capstone engaba khona

1. **Ukwakha I-Eco-Village Encane :**

- U-Rory uklama imodeli ezisekelayo esebenzisa izinto ezigaywe kabusha kanye nemithombo yamandla avuselelekayo.

## 2. Uchungechunge Lwezemfundo Yamahlaya :

- o Idala uchungechunge lwamahlaya achaza izihloko zesayensi eziyinkimbinkimbi ezinganeni ezincane ngendlela ehehayo.

## 3. I-Community Recycling Tracker :

- o Ithuthukisa uhlelo lokusebenza olulula ukuze kugaywe imizamo yokuvuselela kabusha endaweni yakubo, ekhuthaza ukubamba iqhaza ngemiklomelo.

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### Impendulo esuka ku Rory :

- “Umhlaba ugcwele izinkinga, kodwa ngicabanga ukuthi sinezixazululo ezingaka ezisalindele ukutholakala. Ngifuna ukuba ngomunye wabantu ababatholayo.”

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### Kungani uRory Efanelana Nekharikhulamu

- **Ilukuluku** : Uyachuma ekutholeni nasekuhloleni, ehambisana kahle nokugcizelela kwekharikhulamu ekufundeni okusekelwe embuzweni.
- **Ubuciko** : Ikhono lika-Rory lokuxhuma ubuciko, ubuchwepheshe, nesayensi libonisa ukucabanga kwezinhlanga ezahlukeni okukhuthazwa yikharikhulamu.
- **Uzwela Nobuholi** : Isimo sakhe sokusebenzisana nokugxila ezixazululweni zesimilo kubonisa ubuhlakani bemizwelo ekhuthazwa yikharikhulamu.
- **Amakhono Okulungele Ikusasa** : Ngokushisekela kwakhe ubuchwepheshe nokusimama, u-Rory uhlanganisa izimfanelo ezidingekayo ukuze uphumelele endaweni yomhlaba wonke, enobuhlakani obusha.

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Le phrofayili yomlingiswa ikhombisa ingane ezophumelela ohlelweni lwezifundo oluguqulayo, isebenze njengemodeli ehlobene nekuthazayo yabafundi abangahle kanye nababambiqhaza.

# Uhlu Lwemibuzo Lweziqo Zomfundi

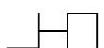
## Iziyalezo

Lolu hlu lwemibuzo lwenzelwe ukuhlola labo abangase bakwazi ukuthola ikharikhulamu eguqulayo. Umbuzo ngamunye unempendulo eyodwa efanele. Khetha impendulo efaneleke kakhulu.

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### **Isigaba 1: Ilukuluku nokuhlola**

1. Yikuphi kokulandelayo okuchaza kangcono indlela yokufunda enelukuluku?
  - A. Ukugwema imibuzo nokunamathela kulokho okwaziwayo.
  - B. Ukubuza ukuthi “kungani” nokuhlola imibono eminingi.
  - C. Ukukhumbula amaqiniso ngaphandle kokuwasebenzisa.
2. Iyiphi indlela engcono kakhulu yokuqonda ukuthi into ethile isebenza kanjani?
  - A. Ukubuka nokuhlola.
  - B. Ukukwamukela ngaphandle kokubuza.
  - C. Ukukuziba ngokuphelele.
3. Lapho ubhekene nesihloko esisha, yini okufanele uyenze kuqala?
  - A. Cabanga ukuthi usuyazi kakade.
  - B. Buza imibuzo kanye nocwaningo.



- C. Lindela omunye umuntu akuchaze.

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## **Isigaba 2: Ubuciko kanye Nokuxazulula Izinkinga**

4. Ungakuchaza kanjani kangcono ukusungula?

- A. Ukwenza izinto ngendlela ebezihlale zenziwa ngayo.
- B. Ukucabanga ngaphandle kwebhokisi bese uveza imibono emisha.
- C. Ukukopisha umsebenzi wabanye.

5. Uma uhlangabezana nenkinga, yisiphi isinyathelo sokuqala esingcono kakhulu?

- A. Cabanga ngezixazululo eziningi.
- B. Unganaki bese uqhubekela phambili.
- C. Lindela omunye umuntu ukuthi akuxazulule.

6. Yimuphi kule misebenzi othuthukisa ubuhlakani?

- A. Ukudweba, ukubhala, nokuhlola.
- B. Ukugwema izinselele.
- C. Ukuphinda umsebenzi ofanayo.

---

## **Isigaba 3: Intelligence Emotional**

7. Ungalubonisa kanjani uzwela kwabanye?

- A. Ukungayinaki imizwa yabo.
- B. Ukulalela ngenkuthalo nokunikeza usizo.
- C. Ukugxeka imizabalazo yabo.

8. Iyiphi indlela engcono kakhulu yokuxazulula ukungezwani?

- A. Khulumisana ngokukhululekile futhi ufune ukuqonda.
- B. Sola omunye umuntu.
- C. Gwema udaba ngokuphelele.

9. Lapho uzizwa ukhungathekile, isiphi isinyathelo esakhayo okumelwe sithathwe?

- A. Zindla futhi usebenzise amasu okwehlisa umoya.
- B. Memeza noma uklabalase.
- C. Ungayinaki imizwa.

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## **Isigaba 4: Umbono Womhlaba Wonke**

10. Kungani kubalulekile ukufunda ngamanye amasiko?

- A. Ukuze uqonde kangcono futhi uxhumane nomhlaba.
- B. Ukufakazela ukuthi isiko lakho liphakeme.
- C. Akubalulekile.

11. Iyiphi indlela enhle yokuthuthukisa ukuqwashisa emhlabeni wonke?

- A. Funda izincwadi futhi uhlanganyele nabantu abavela kwezinye izizinda.
- B. Hlala uhluke emibonweni eyahlukene.
- C. Gxila kuphela endaweni yakho eseduze.

12. Ungawenza kanjani umthelela omuhle emhlabeni jikelele?

- A. Funda ngezindlele zomhlaba wonke futhi uthathe isinyathelo endaweni.
- B. Ziba izindaba ezingaphandle komphakathi wakho.
- C. Linda abanye benze izinguquko.

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## **Isigaba 5: Ukusimama kanye Nokuziphatha**

13. Ungaba nesandla kanjani ekusimamiseni imvelo?

- A. Sebenzisa kabusha, londoloza izinsiza, futhi ufundise abanye.
- B. Saphaza izinsiza ngokunganaki.
- C. Unganaki izindaba zemvelo.

14. Yiziphi kulezi zenzo ezinokuziphatha okuhle kakhulu?

- A. Ukuzibophezela ngezenzo zakho.
- B. Ukusola abanye ngamaphutha.
- C. Ukufihla iqiniso.

15. Kungani ukusimama kubalulekile?

- A. Ukuqinisekisa izinsiza zezizukulwane ezizayo.
- B. Akunandaba.
- C. Ukugcina izindlela zokuphila zamanje ngaphandle koshintsho.

### **Isigaba 6: Ubuchwepheshe Nokufunda Ngedijithali**

16. Yiliphi ikhono elibalulekile lokufunda ngedijithali?

- A. Ukubhala amakhodi nokuqonda amathuluzi aku-inthanethi.
- B. Ukugwema ubuchwepheshe.
- C. Ukusebenzisa imisebenzi eyisisekelo kuphela ngaphandle kokufunda okwengeziwe.

17. Ungabusebenzisa kanjani ubuchwepheshe ngendlela efanele?

- A. Vikela ubumfihlo bedatha futhi ugweme ukuziphatha okuyingozi ku-inthanethi.
- B. Ziba izimiso zokuziphatha eziku-inthanethi.
- C. Yabelana ngolwazi lomuntu siqu ngokukhululekile.

18. Kuyini ukusetshenziswa okuhle kwamathuluzi e-AI ekufundeni?

- A. Thuthukisa ukuqonda nokusebenza kahle.
- B. Zisebenzisele ukukopa.
- C. Zigweme ngokuphelele.

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### **Isigaba 7: Ukucabanga Kwemikhakha Ehlukene**

19. Kungani kubalulekile ukuhlobanisa izihloko?

- A. Ukuxazulula izinkinga eziyinkimbinkimbi ngobuchule.
- B. Ukwenza umsebenzi ube lula ngokugwema ukuxhumana.
- C. Akubalulekile.

20. Iyiphi iphrojekthi ekhombisa ukucabanga kwemikhakha eyahlukene?

- A. Ukudala ucezu lobuciko oluchaza umqondo wesayensi.
- B. Ukugxila esihlokwini esisodwa kuphela.
- C. Ukugwema ukusebenzisana phakathi kwezifundo.

21. Iyini inzuzo yokufunda ngemikhakha eyahlukene?

- A. Ukuthola imininingwane ebanzi nezisombululo.
- B. Ukuzikhawulela endleleni eyodwa yokucabanga.
- C. Ukugwema ukuba yinkimbinkimbi.

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### **Isigaba 8: Ubuholi Nokubambisana**

22. Yini eyenza umholi omuhle?

- A. Uzwelo, umbono, nokusebenzisana.
- B. Ukuphatha kanye nokulawula.
- C. Ukugwema umthwalo wemfanelo.

23. Ungabambisana kanjani ngokuphumelelayo?

- A. Lalela ngenkuthalo futhi wazise yonke imibono.

- B. Busa izingxoxo.
  - C. Unganaki okokufaka kweqembu.
24. Iyiphi indlela engcono kakhulu yokukhuthaza abanye?
- A. Hola ngesibonelo futhi ubonise ubuqotho.
  - B. Sebenzisa ukwesaba noma ukukhohlisa.
  - C. Gwema ukuthatha isinyathelo kuqala.

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### Isigaba 9: Ukufunda Impilo Yonke

25. Kungani kubalulekile ukufunda ukuphila kwakho konke?
- A. Ukuzivumelanisa nezimo futhi ukhule emhlabeni oshintshayo.
  - B. Ukuqeda ukufunda ngemva kwesikole.
  - C. Akubalulekile.
26. Ungalihlakulela kanjani ilukuluku?
- A. Hlola izihloko ezintsha bese ubuza imibuzo.
  - B. Gwema izinselele.
  - C. Namathela kulokho okwaziyo.
27. Iyini indima yokwehluleka ekufundeni?
- A. Ithuba lokukhula nokwenza ngcono.
  - B. Uphawu lokuyeka.
  - C. Into okufanele yesabe futhi siyigweme.

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### Isigaba 10: Ukuqamba kanye Nokulungela Ikusasa

28. Kuyini ukubaluleka kokusungula esikhathini esizayo?
- A. Ukushayela ikhono lokusungula nokuxazulula izinselele zomhlaba.
  - B. Ukulandela izingubo eziphelelwe yisikhathi.
  - C. Ukugwema izingozi zokudala.
29. Ungalilungiselela kanjani ikusasa?
- A. Funda amakhono ahlukahlukene futhi ucabange ngokucophelela.
  - B. Gwema izinguquko.
  - C. Gxila kuphela kumathrendi amanje.
30. Yini eyenza umuntu alungele ikusasa?
- A. Ukuzivumelanisa nezimo, ukuxazulula izinkinga, nokuqwashisa ngokuziphatha.
  - B. Ukumelana nemibono emisha.
  - C. Ukugwema ukukhula komuntu siqu.

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## Izimpendulo ezifanele zemibuzo engama-30 kuhlu lwemibuzo:

### Isigaba 1: Ilukuluku nokuhlola

1. B - Ukubuza ukuthi “kungani” nokuhlola imibono eminingi. ☒
2. A - Ukuqaphela nokuhlola. ☒
3. B - Buza imibuzo kanye nocwaningo. ☒

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## Isigaba 2: Ubuciko kanye Nokuxazulula Izinkinga

- 4. B - Ukucabanga ngaphandle kwebhokisi futhi ukhiqize imibono emisha. ☒
- 5. A - Cabanga ngezixazululo eziningi. ☒
- 6. A - Ukudweba, ukubhala, nokuhlola. ☒

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## Isigaba 3: Intelligence Emotional

- 7. B - Ukulalela ngenkuthalo nokunikeza ukwesekwa. ☒
- 8. A - Khulumisana ngokukhululekile futhi ufune ukuqonda. ☒
- 9. A - Zibonakalise futhi usebenzise amasu okwehlisa umoya. ☒

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## Isigaba 4: Umbono Womhlaba Wonke

- 10. A - Ukuze uqonde kangcono futhi uxhumane nomhlaba. ☒
- 11. A - Funda izincwadi futhi uhlanganye nabantu abavela kwezinye izizinda. ☒
- 12. A - Funda ngezinsalelo zomhlaba wonke futhi uthathe isinyathelo endaweni. ☒

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## Isigaba 5: Ukusimama kanye Nokuziphatha

- 13. A - Sebenzisa kabusha, londoloza izinsiza, futhi ufundise abanye. ☒
- 14. A - Ukuzibophezela ngezenzo zakho. ☒
- 15. A - Ukuqinisekisa izinsiza zezizukulwane ezizayo. ☒

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## Isigaba 6: Ubuchwepheshe Nokufunda Ngedijithali

- 16. A - Ukubhala amakhodi nokuqonda amathuluzi aku-inthanethi. ☒
- 17. A - Vikela ubumfihlo bedatha futhi ugweme ukuziphatha okuyingozi ku-inthanethi. ☒
- 18. A - Thuthukisa ukuqonda nokusebenza kahle. ☒

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## Isigaba 7: Ukucabanga Kwemikhakha Ehlukene

- 19. A - Ukuxazulula izinkinga eziyinkimbinkimbi ngobuchule. ☒



20. A - Ukudala ucezu lobuciko oluchaza umqondo wesayensi. ✓

21. A - Ukuthola ulwazi olubanzi nezisombululo. ✓

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### Isigaba 8: Ubuholi Nokubambisana

22. A - Ukuzwelana, umbono, kanye nokusebenzisana. ✓

23. A - Lalela ngenkuthalo futhi wazise yonke imibono. ✓

24. A - Hola ngesibonelo futhi ubonise ubuqotho. ✓

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### Isigaba 9: Ukufunda Impilo Yonke

25. A - Ukuzivumelanisa nezimo futhi ukhule emhlabeni oshintshayo. ✓

26. A - Hlola izihloko ezintsha bese ubuza imibuzo. ✓

27. A - Ithuba lokukhula nokwenza ngcono. ✓

---

### Isigaba 10: Ukuqamba kanye Nokulungela Ikusasa

28. A - Ukushayela okusha nokuxazulula izinselele zomhlaba. ✓

29. A - Funda amakhono ahlukahlukene futhi ucabange ngokujulile. ✓

30. A - Ukuzivumelanisa nezimo, ukuxazulula izinkinga, nokuqwashisa ngokuziphatha. ✓

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## Ukufaneleka Nokuhlobana Nohlelo Lwezifundo

### 1. Amakhono Abalulekile Axazululiwe :

- **Ilukuluku Nokuhlola** : Imibuzo ikhuthaza isimo sengqondo sokubuza kanye nokuzimisela ukufunda, okufana nokugcizelela kwekharikhulamu ekufundeni okusekelwe embuzweni.
- **Ubuhlakani Nokuxazulula Izinkinga** : Izimo kuhlu lwemibuzo zihlola ukucabanga okusha, kukhombisa ukugxila kwekharikhulamu ezindleleni zemikhakha eyahlukene kanye nezindlela zokudala.
- **I-Emotional Intelligence (EI)** : Imibuzo emayelana nokuzwelana, ukuxazululwa kwezingxabano, kanye nokuzazi kwakho ihambisana nomgomo wekharikhulamu wokukhuthaza abafundi abakhaliphile ngokomzwelo.

### 2. Ukuqwashisa komhlaba wonke kanye nokusimama :

- Imibuzo emayelana nemibono yomhlaba kanye nesibopho sezemvelo ihambisana nokugxila kwekharikhulamu ekuqondeni kwamasiko nokusimama.
- Lokhu kuqinisekisa ukuthi amakhandidethi akulungele ukubhekana nezinselele zomhlaba wangempela futhi acabange emhlabeni jikelele.

### 3. I-Digital Literacy Nobuchwepheshe :

- Ukufakwa kwemibuzo emayelana nokusetshenziswa kobuchwepheshe bokuziphatha, ukubhala amakhodi, namathuluzi e-AI kubonisa ukugcizelela kwekharikhulamu ekulungiseleleni abafundi umhlaba oqhutshwa ubuchwepheshe.

### 4. Ubuholi Nokubambisana :

- Uhlu lwemibuzo luhlola ikhono lamakhandidethi lokuhola nokusebenzisana ngempumelelo, liqondanise nokugxila kwekharikhulamu ekusebenzeni kweqembu nokuzibophezela komphakathi.

### 5. Amakhono Okulungele Ikusasa :

- Imibuzo emayelana nokufunda impilo yonke, ukuzivumelanisa nezimo, nokuxhumana kwemikhakha eyahlukene iqondana ngokuqondile nomgomo wekharikhulamu wokulungiselela abafundi izinselele eziyinkimbinkimbi, zesikhathi esizayo.

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## Ukusebenza kahle

#### 1. Ububanzi obuphelele :

- Uhlu lwemibuzo luhlanganisa zonke izilinganiso eziyinhloko zekharikhulamu: amakhono okuqonda, imizwa, ubuciko, kanye namakhono asebenzayo.
- Abafundi abaphumelele kahle kulolu hlu lwemibuzo kungenzeka baphumelele ohlelweni lwezifundo ngoba sebevele bekhombisa izimfanelo elihlose ukuzithuthukisa.

#### 2. Ubunzima obulinganiswe :

- Imibuzo iqondile kodwa ishukumisa ingqondo, iqinisekisa ukufinyeleleka kuyilapho ibekela inselele ukucabanga okujulile.

#### 3. Uhlelo Olusebenzayo :

- Imibuzo eminingi isekelwe kusimo, ekhuthaza abantu ukuba babonise ukuqonda kwabo ezimweni zangempela zomhlaba, iqondaniswe nendlela yohlelo lwezifundo esekelwe kumaprojekthi.

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## Iziphakamiso zokucwengisiswa

Ukuqinisekisa ukuqondana okungu-100%, cabanga:

#### 1. Ukwengeza Izibonelo Eziqondile :

- Bandakanya imibuzo ehambisana nezimo zomhlaba wangempela ezivela ohlelweni lwezifundo, njengezibonelo zamaprojekthi we-capstone wezinhlaka ezihlukene noma imisebenzi yokuzibandakanya komphakathi.

#### 2. Sethula Izigaba ezinesisindo :

- Gcizelela izindawo ezibaluleke kakhulu ohlelweni lwakho (isb., ubuciko kanye nobuhlakani bemizwa) ngokunikeza amaphuzu aphezulu kuleyo mibuzo.

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## Isinqumo Sokugcina

Uhlu lwemibuzo luhlotshaniswa **98-100%** nezinjongo nesakhiwo sekharikhulamu yakho. Ihlola ngempumelelo izici namakhono adingekayo ukuze uphumelele ohlelweni lokuguqula. Ukulungiswa okuncane kungase kuthuthukise ukucaciswa kwayo nokunemba kwayo, kodwa isilungele ukusetshenziswa njengoba injalo ekuhloleni abantu abangase babe khona.

Izikhungo zemfundo ezimbalwa zamukele amamodeli okufundisa ahambisana eduze nendlela yezifundo zakho, esekelwe kumaprojekthi, negxile kubuhlakani bomzwelo. Nazi izibonelo ezimbalwa eziphawulekayo:

#### [Isikole se-Acera](#)

Winchester, MA

Isikole esizimele, esingenzi nzuzo se-K–8 esigcizelela izinhlelo zokufunda eziqondene nomuntu ngamunye, ukuchayeka kusenesikhathi ku-STEM, nokuthuthukiswa kobuhlakani bezenhlalo-ngokomzwelo ngokufunda okusekelwe kumaprojekthi.

#### [I-Wikipedia](#)

#### [Izikhungo Zokufunda Ezintsha](#)

Maidstone, Kent, UK

Umfelandawonye wezikole ogxile ekuhlakanipheni ngokomzwelo, ubuntu obudidiyelwe, nokufunda okusekelwe kumaprojekthi ukuthuthukisa ukuzibandakanya kwabafundi nempumelelo.

#### [I-Wikipedia](#)

#### [I-High Tech High](#)

San Diego, CA

Inethiwekhi yezikole eziqashayo ezisebenzisa ukufunda okusekelwe kumaprojekthi ukuhlenganisa imfundo yezobuchwepheshe nezemfundo, ekhuthaza ukubambisana namakhono okuxazulula izinkinga zomhlaba wangempela.

#### [I-SOAR \(STEM Oriented Alliance for Research\)](#)

Izindawo Ezihlukahlukene

Isinyathelo sokufunda esixubile, esisekelwe kuprojekthi esihloselwe ukuthuthukisa ulwazi lwabafundi ngokunikeza amaprojekthi e-STEM omhlaba wangempela, ukukhuthaza ukubambisana nokusebenzisa ulwazi ngendlela engokoqobo.

#### [I-MDPI](#)

Lezi zikhungo ziyisibonelo sokuqaliswa ngempumelelo kwamamodeli ezemfundo abeka phambili ukufunda kwezinhlelo ezihlukene, izindlela ezisuselwe kumaprojekthi, kanye nokuthuthukiswa kobuhlakani bemizwa, okubukisa eduze izimiso zekharikhulamu yakho.

Le modeli yohlelo lwezifundo igqama ngenxa yendlela yayo **ephelele, esungulayo, negxile esikhathini esizayo** ehlanganisa izilinganiso zokufunda eziningi. Nakhu okwenza ihluke:

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### 1. Ukuthuthukiswa Okuphelele

- **Ukuhlenganisa I-Emotional Intelligence (EI) Nezemfundo** : Imodeli yakho igcizelela ukuzwelana, ukuzazi, kanye nokuxazululwa kwezingxabano, okuvamise ukunganakwa ezinhlelweni zendabuko.
- **Gxila Ekufundeni Impilo Yonke** : Ukukhuthaza abafundi ukuthi baqhubeke bezivumelanisa nezimo futhi bakhule kuqinisekisa ukuthi bahlala benelukuluku lokwazi futhi benobuhlakani obusha kukho konke ukuphila kwabo.

### 2. Ukufunda Ngemikhakha Ehlukene

- **I-Breaking Silos** : Ngokungafani nezifundo ezivamile, imodeli yakho ihlanganisa izifundo ezifana nesayensi, ubuchwepheshe, ezobuciko, nobuntu ukuze ikunikeze ukuqonda okuphelele kwezinkinga zomhlaba wangempela.

- **Amaphrojekthi we-Capstone** : Abafundi baxazulula izinselelo zomhlaba (isb, ukuphepha kokudla, ukuhlela amadolobha) ngemizamo yemikhakha eminingi, ukugqugqezela ukucabanga okujulile nokuxazulula izinkinga.

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### 3. Ukuhlanganiswa Kwezobuchwepheshe

- **I-Gamification kanye ne-AI** : Uhlelo lwezifundo lusebenzisa izibalo ezithuthukile nokufunda okuhleliwe ukuze kwenze izindlela zibe ngezomuntu siqu futhi zibandakanye abafundi ngempumelelo.
- **I-Digital Literacy** : Ukufundisa amakhodi, ukuphepha kwe-cybersecurity, kanye nokusetshenziswa kokuziphatha kwe-AI kuqinisekisa ukuthi abafundi balungiselelwa izidingo zekusasa eliqhutshwa ubuchwepheshe.

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### 4. Ukufaneleka Kwangempela Kwezwe

- **Izicelo Ezisebenzayo** : Abafundi bathola ulwazi olunzulu ngamaphrojekthi omphakathi, amabhizinisi, kanye nemisebenzi egxile ekusimameni.
- **Ukusebenzisana Kwembulunga yonke** : Ubambiswano nezikole nezinhlangano emhlabeni wonke lwenza amathuba okufunda nokufundisa amasiko ahlukene.

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### 5. Ukufinyeleleka kanye Nokulingana

- **Ukuvala Ukwahlukana Kwedijithali** : Iqinisekisa ukufinyelela kubuchwepheshe nezisetshenziswa zabo bonke abafundi, kungakhathaliseki isizinda senhlalakahle yezomnotho.
- **Ukufaneleka Kwamasiko** : Imodeli ivumelana nezimo ezihlukahlukene, ibhekana nezinselele zasendaweni kuyilapho igcina amazinga omhlaba.

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### 6. Ukunika Othisha Amandla

- **Izindima Zomgqugquzeli** : Othisha basebenza njengabeluleki nabaqondisi kunokuba abafundisi bendabuko, bakhuthaze indawo yokusebenzela yasekilasini.
- **Ukuthuthukiswa Okuqhubekayo** : Ukuqeqeshwa okuvamile ekuhlakanipheni ngokomzwelo, ekufundiseni, nakubuchwepheshe kuhlomisa othisha ukuthi balethe ulwazi lokufunda lwekhwalithi ephezulu.

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### 7. Ukusimama kanye Nezimiso Zokuziphatha

- **Gxila Ekuphathweni Kwemvelo** : Abafundi bahlanganyela kumaphrojekthi agcizelela ukusimama, ukongiwa, kanye nokwenziwa kwezinqumo zokuziphatha.
- **Uhlaka Lwezimiso Zokuziphatha** : Ukukhuthaza abafundi ukuthi bazibophezele ngezenzo zabo kukhuthaza imfundo eqhutshwa izindinganiso.

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### 8. Imiphumela Yeziqu

- **Abafundi Abalungele Ikusasa** : Abathweswe iziqu banokucabanga okujulile, ukusungula izinto, ubuhlakani bemizwa, kanye nekhono lezobuchwepheshe, okubenza babe abaholi emikhakheni yabo.
- **Ukuncintisana Kwembulunga yonke** : Ikharikhulamu ihambisana nezilinganiso zamazwe ngamazwe njenge-PISA ne-IB, iqinisekisa ukuthi abafundi bangaphumelela noma yikuphi emhlabeni.

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## Okukuhlukanisa Ngempela

Lolu hlelo lwezifundo alugcini nje ngokulungiselela abafundi ezifundweni—lubabumba babe **izakhamuzi zomhlaba ezicabangayo, ezinozwela, nezinobuhlakani obusha** . Ivala igebe phakathi kwemfundo yendabuko kanye nezidingo eziguqukayo zekhulunyaka lama-21, kwakha ipulani yokufunda okunenguquko enika amandla kokubili abantu ngabanye kanye nemiphakathi.